

## **AMENDMENTS TO THE CLAIMS**

This listing of the claims will replace all prior versions, and listings, of claims in the application:

### **Listing of the Claims:**

1. (Currently amended) A medical catheter system comprising:
  - a first catheter having
    - an entrance orifice,
    - an exit orifice,
    - a channel connecting the entrance orifice and the exit orifice,
    - a wall surrounding the channel, the hardness of the wall surrounding the channel, when considered from an initial reference point at the entrance orifice and traveling towards the exit orifice, regardless of the orientation of the wall, decreasing in hardness in a first distinct region then increasing in hardness in a second distinct region and then decreasing in hardness again in a third distinct region, the hardness of the third region being different than the hardness of the first region and,
  - a second catheter located within the first catheter, the first catheter sized to allow the second catheter to move within it, the second catheter having a steerable distal portion and a bendable curved memory portion;
  - wherein the bendable curved memory portion of the second catheter contains a cross-linking polymer activated by ultra-violet light, and when activated the curved memory portion becomes shaped into a predetermined shape.
  - ~~wherein the second catheter has a plurality of flushing orifices sized to allow fluid to pass from an outside surface of the second catheter to an inside surface of the second catheter.~~
2. (Canceled)
3. (Previously Presented) The medical catheter system of claim 1 further comprising:
  - a third catheter located within the second catheter, the second catheter sized to allow the third catheter to move within it.
4. (Canceled)

5. (Cancelled)
6. (Cancelled)
7. (Currently Amended) The medical catheter system of claim 1 ~~5~~ wherein the bendable curve memory portion of the second catheter contains an outer layer with a first hardness and an inner layer with a second hardness, the second hardness being harder than the first hardness.
8. (Previously presented) The medical catheter system of claim 1 wherein the second catheter has an outer layer with a first hardness and an inner layer with a second hardness, the second hardness being harder than the first hardness.
9. (Previously Presented) A medical catheter system comprising:
  - a first steerable guide catheter having
    - an entrance orifice,
    - an exit orifice, and
    - a first wall surrounding a channel linking the entrance orifice and the exit orifice, the first wall having a bendable curve memory portion,
      - wherein the bendable curve memory portion is bent into a predetermined shape and contains a plurality of flushing orifices and
      - wherein the first wall contains a first layer, a second layer, and a third layer, each layer having a different hardness; and,
  - a flushing line positioned around the first catheter, the flushing line in fluid communication with the plurality of flushing orifices.
10. (Canceled)
11. (Previously Presented) The medical catheter system of claim 9 wherein the first wall contains a reinforcing structure and the bendable curve memory portion comprises a curve memory material.
12. (Original) The medical catheter system of claim 9 wherein an inside surface of the first catheter includes a lubricious treatment.
- 13-28. (Canceled)

29. (Previously Presented) The medical catheter system of claim 9 wherein the plurality of flushing orifices extend through at least two of the layers.
30. (Previously Presented) The medical catheter system of claim 1 wherein the second catheter has a plurality of flushing orifices.
31. (Previously Presented) The medical catheter system of claim 1 further comprising a flushing line coupled to the first catheter.
32. (Previously Presented) The medical catheter system of claim 30 wherein the plurality of flushing orifices are in fluid communication with a flushing line coupled to the first catheter.
33. (Previously presented) The medical catheter system of claim 9, wherein the first layer, the second layer, and the third layer are concentric, and the first layer is an inner layer, the second layer is a middle layer, and the third layer is an outside layer, and the first layer is harder than the second layer.